											FHVA REGION NO.	STATE FE	FED, AID SI ROJ. NO.
Ind	tersection Operation											MD	
Intersection Operation MD 118 (Relocated) and MD 117 (Relocated) — This intersection is to			EQUIPMENT LISTS				B. Equipment	B. Equipment to be furnished and/or installed by the Contractor.					
operate in a semi-traffic-actuated mode with MD 118 approaches running concurrently and the MD 117 approaches running			A. Equipment to be supplied by the Administration.					SPECIICATI	ON				
concurrently. Exclusive left-turn phasing will be provided for northbound and southbound MD 118. Concurrent exclusive/permissive left-turn				SPECIICATION	N		ITEM NO. QUAN	TITY SECTION	DESCRIPTION				
phasing will be provided for east and westbound MD 117.			ITEM NO. QUANTITY	SECTION	DESCRIPTION		21.3	CY 801	Concrete for s	ianal			
An eight (8) phase, full-traffic-actuated, solid state digital controller with six (6) two-channel loop detector amplifiers			6 EA 4 EA	814	12 inch 1-way, 3-section (R, Y, G) signal head - span mount.	21.0	. 001	foundations	rgiloi				
with time delay output and all necessary equipment for a Montgomery County signal. The controller is to operate in a Nema eight (8) phase, semi-traffic-actuated mode. MD 118 is assumed to run in a north-south orientation		5 EA				804	Ground rod (3/4 copper x 10 LF)						
		12inch 1-way,				4 EA	882	12" x 32' steel					
This intersection will be interconnected with the Montgomery County					3-section (ŘA, YA signal head - spo				pole 2 - ply (N 1/4" x 96" anch	ote: Install 2 or bolts.)			
computerized signal system. Special Notes		2 EA	814	12 inch 1-way, 5-section		. 1 EA	882	10 foot breakaw					
1. The Contractor shall trench all conduits prior to roadway				(R,Y,YA,G,GA) signal head - span mount.		120	LF 805		Note: 4 - 1"x40" anchor bolf flexible non-metallic	·5).			
	pavement unless noted otherwise on the plans or in the specifications.		4 EA	817	Pushbutton and sign.				conduit for det	ector/sleeve.			
2.	Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic contol: 105.00, 105.01, 105.02, 105.309, 105.311. The following contact persons for SHA Office of Traffic and District 3 are as follows:		2 EA	814	Combination 1-way		175			rigid PVC conduit trenched.			
			2 17	01,	5-section 12" (YA and 8" (R,Y,G) s	A, GA)	1 EA		Control and dis				
3.					span mount.	7191,61 11000	80			rigid PVC conduit trenched.			
	Mr. Paul Armstrong Mr. Maj Shakib		3 EA	814	12 inch 2-way, 2-		585			rigid PVC conduit trenched.			
	District Engineer (Acting)	Asst. District Engineer - Taffic			pedestrian signal pole mount.	nedds -	150 L 72 S		4 schedule 40 Install ground	rigid PVC conduit trenched.			
	Phone# (301) 513-7311	Phone# (301) 513-7359	1 EA	814	12 inch 2-way, 2- pedestrian signal		85		Install overhea				
	Mr. Carter Wilson Asst. District Engineer	Mr. Francis Lauer Asst. District Engineer – Utilities			pedestal mount.	110000	120 L		Wooden sign sup				
	Phone # (301) 513-7305	Phone # (301) 513 - 7351	1 EA	816	Eight-phase, (ful actuated), contro		3 EA		Install pedestr	ian signal			
	Mr. Richard L. Daff Sr. Chief, Traffic Operations Divisio	חמ			with all necessar for Montgomery Co	ry equipment	1 EA	814	head - pole mou				
	Phone # (410) 787-7630				TOL MOLLIGORICLY CO	out i y	I EA	014	Install pedestr head – pedestal				
4.		esponsible for terminating all signal cables, excluding	6 EA	817	Two-channel loop amplifier with ti		14 EA	814	Install signal h — span mou	nead nt			
	interconnect, to the appropriate signal terminals and shall properly label each cable.		457.05	0.4.7	output.		2835	LF 810	Loop wire enca				
5.	The Signal Contractor is to route all proposed signal cables to the base of the existing cabinet and properly label each cable. MCDOT forces		157 SF	813	Sheet aluminum si consisting of:	gns -			•	(No. 14 A.W.G.)			
	shall be responsible for the internal wiring of the cabinet.		2 EA		R3-5L (30" X 36")		2295	LF 810	electrical cable	e uminum shielded).			
6.	The Signal Contractor is to run interconnect cables to the base of each cabinet and properly tag all cables. MCDOT forces shall be		2 EA		D3-2 dual face (V	(AD × 16")	1 EA	816	eight phase (fu				
_	responsible for performing all splicesl and connectionsof the interconnect cables.		Z CA	"Germantown RD.		sign.	, LA	010	controller and	cabinet - base mount.			
7. Interconnect shall be maintained to all traffic signals at all times.		2 EA	D3-2 dual face (VAR x 16") "Clopper RD" sign.		1030	F 810 -	electrical cab 2-conductor (
CONSTRUCTION DETAILS		2 EA		_) left turn yield								
1.	Install 12"x32" steel strain pole	steel strain pole with pedestrian signals, pedestrian ign, 250 watt HPS lamp, luminaire and 20 ft lighting arm		on green		7 1011 13111 31013	1105	LF 810	electrical cab 5-conductor (No				
	(Note: 1-3", 90 degree PVC schedule 40 conduit bend.)		8 EA W3-3 new (36" sign.		W3-3 new (36" x 3 sian.	6")	2550	LF 810	electrical cable				
4.	Install handhole.		a.		3		1100	LF 815	7-conductor	ol loop detector.			
5.	Install 6' x 6' loop detector enco	used in 1/4" flexible tubing					12 E/		Handhole	in roop defector.			
	(3 turns).	·											
6.	Install 1" liquid tight, flexible wire.	conduit sleeve for detector					1 EA 630 L	811 F 819	Handhole (altern steel span wire				
7.	Install $6' \times 30'$ loop detector end	cased in 1/4" flexible	•				030 1	013	3/8 inch diameter				
8.	tubing, (2-4-2) quadrupole type, Install 3" schedule 40 polyvinyl	chloride electrical conduit (trenched).					630 L	F 819	steel span wire				
									¼ inch diameter				
		cal conduit (trenched) prior to installation of pavement. chloride electrical conduit (trenched).					4 EA 4 EA	814 812	<u> </u>	ressure sodium lamp and lumii	naire	•	
	Install base-mounted cabinet, cont						1000 LF	810		orm on signal structure. / cable (No. 12 AWG)			
12.	equipment as shown. (Note: 1-2" s conduit bend (for power service).	sch 80 PVC 90-degree					60 LF	810	· ·	ard bare copper ground wire.			
	chloride, 90-degree conduit bends, chloride, 90-degree conduit bend).	and 1-3" sch 40 polyvinyl											
	Install 3/8" span wire, sianals an	nd sians as shown, sians and											
13. Install 3/8" span wire, signals and signs as shown, signs and five—section signal heads are to be tethered using 1/4" steel span tether wire.							TRAFFIC CONTROL PLAN - STAGE				/ PHAS	E II	
14.	Install 12" x 32' steel strain pole with 250 watt HPS lamp and luminaire, 20 ft			DEVICIONS		REVISIONS	APPROVALS						
lighting arm, pedestrian signals pedestrian pushbutton and sign. (Note: one-3", sch 40 PVC 90-degree conduit bend and 4-2 1 /4in. x 96 in. anchor bolts).							MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety						
۸C	Install 24" white preformed pavement marking for stop line.						CHIEF, SIGNAL DESIGN SECTION		TRAFF	TIC ENGINEERING DESIGN DIVIS	SION		
70∙	THOTALL 24 WILLIE PLETOLINEU PAVELLE :	THE HOLKING TO STOP THE.						ORIGINAL R. Drawn by	CICCHINI				,

CONSULTING ENGINEERS COLUMBIA, MARYLAND

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

R. MILSTEAD

F.A.P. NO.

S.H.A. NO. <u>M 969-452-371</u>

DES.BY

CHK. BY

DATE: 12/95

SCALE:

MD 118 REL AT MD 117 REL

GENERAL INFORMATION SHEET 2 OF 2

LOG MILE # 150 1 107.64 COUNTY: MONTGOMERY

TS/FILE NO. SHEET NO.

2473X1-GI

SHEET NO.

____ OF ____

49. Install handhole (alternate brick).

50. Install preformed pavement marking arrow.

51. Install 10" breakaway pedestal pole with pedestrian signals, pedestrian pushbutton and sign. (Note: 4-1 in. x 40 in. anchor bolts and 1 - 4 in. sch 80 PVC conduit bend)